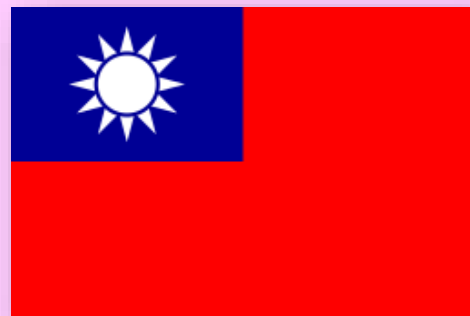


TTICoS 2023

THAILAND X TAIWAN



GRAPE KING BIO

ยินดีต้อนรับ



葡萄王生技

**Roots of a Better Future:
Grape King Bio**

Presenter: Chin-Chu Chen, PhD
General Manager

Date: 2023/09/12

“ Grape King Bio’s Milestones

Grape King Bio
Longang Factory



1969

Pro-Partner



1998

Grape King Bio
Health and Vitality
Power Visitor
Centre



2017

Grape King
Biotech Research
Institute



2019

GK Bio
International
Malaysia



2023



Shanghai
Grape King



Grape King Bio
Pingzhen
Headquarters



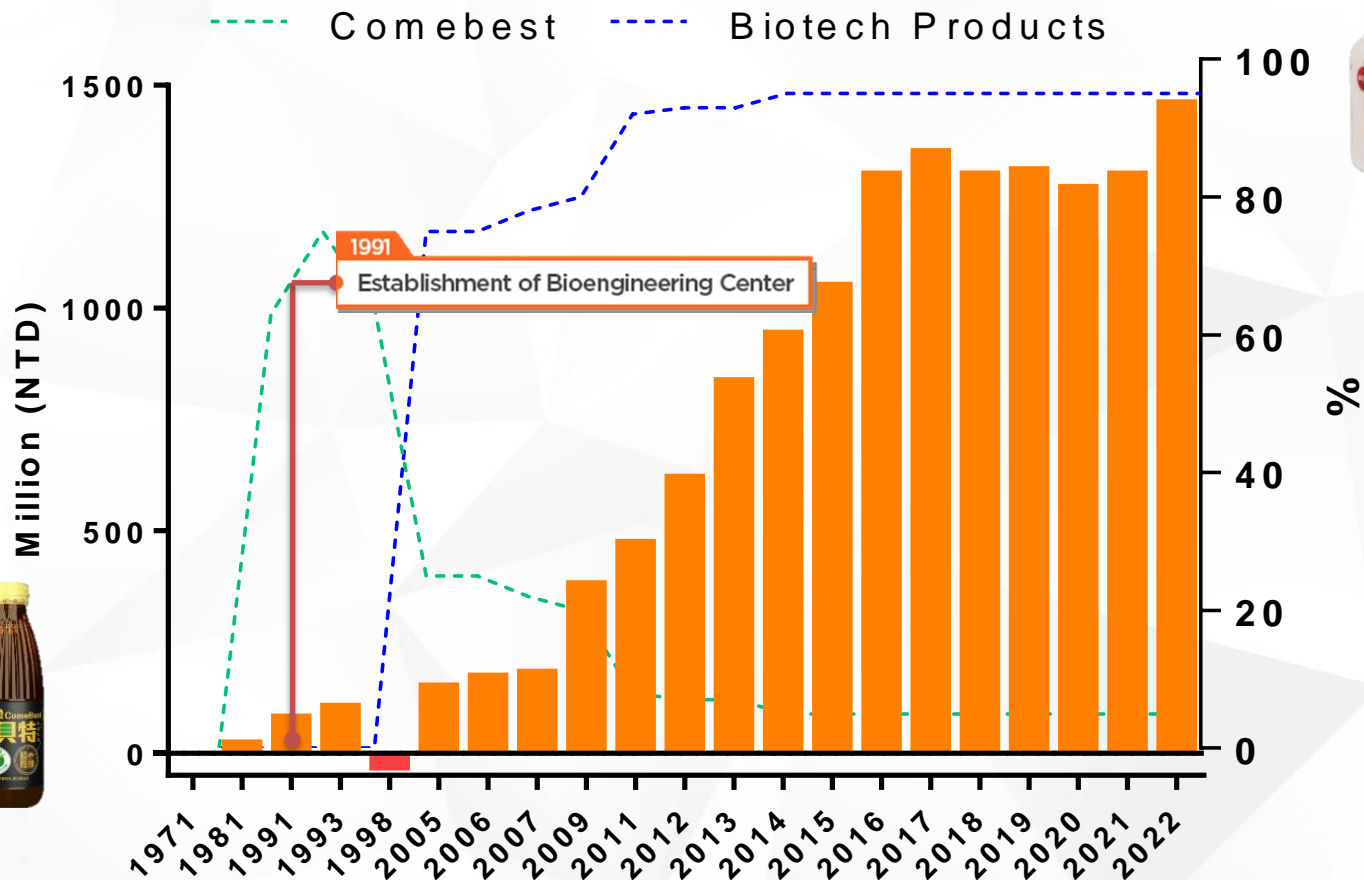
Taipei Grape King
& Pro-Partner
Headquarters



Grape King Bio
YongFeng Factory



Total Grape King Revenue since 1971



“Largest Functional Raw Material Provider in Taiwan” 4

No. 1 Market Share
in Taiwan

40%

No. 1 Fermentation
Capacity in Taiwan

386

Tons/Week

506
Tons

Grape King Biotech Research Institute has over 30 years of experience **in mushrooms and probiotics**, occupying a leading position in the Taiwan industry

120 tons of fermentation tanks under construction within YongFeng Factory

No. 1 OEM/ODM
Provider in Taiwan
To Our Own Brand

>50

Probiotic Brands

With rich experience in OEM/ODM services, mainly for **China, Europe, US and Southeast Asia countries.**

Professional R&D Team; Leading R&D Technology; Knowledge about Market Trends



R&D / Total = 28.3%

147
R&D Members

14
PhD Holders

22
Dietitians

17
Food Technicians



BioSpectrum / Vol 11 / Issue 8 / August 2016

CoverStory

FASTEST 50 BIOSCIENCE COMPANIES IN ASIA-PACIFIC

In the July issue, BioSpectrum Asia covered the top performing companies of pan Asia region and we are now presenting Fastest 50 companies. The Fastest 50 companies are evaluated based on their annual revenue and are running close to enter into BSA Ranking club. The companies are selected from India, China, Taiwan, Korea, Australia, Malaysia, Indonesia, Singapore and Hong Kong. China and India based companies are among the front runners whereas Korean companies also exhibited success in commercializing the products. Australia's Heartware and Singapore's Luye Pharma demonstrated good strategies to pump up their revenue to get going in the competition. Here is the complete list:

2016.08

41 GRAPE KING

Grape King is one of the top manufacturers in the health food biotechnology industry of Taiwan and is also a cGMP (Current Good Manufacturing Practices) certified pharmaceutical manufacturer. The company was established in 1991 for research and development as well as production of drugs including Antrodia camphorata, Antrodia salmonea and antibiotics. The company has been awarded one US patent, two China patents and six Taiwan patents via working with national academic and research institutions to develop and improve products through cooperative research.

Revenue: \$232 million

“ One of the Best Probiotic Experts in the World

October, 2018
Up to Date

Our Probiotic Products'
Market Share

No. 7
in the World

2018.Oct

生技醫藥 產業透析 NO.116

焦點話題
臺灣益生菌膳食補充品產業發展概況

國際風尚 / 從全球細胞治療產業趨勢看臺灣產業發展
國內觀察 / 臺灣藥品委託服務產業現況與發展
從臺灣人用藥品主要出口廠商觀察學名藥產業國際布局策略
科技脈動 / NGS 於臨床檢驗上的應用—精準醫療中不可或缺的一環

國際策略、應用生技及醫材產業 / 2018 年 9 月我國製藥 / 應用生技 / 醫材產業

財團法人生物技術開發中心
Development Center for Biotechnology

科聲聲明，以及將臺灣生醫的研發板塊透過之健康食品認證、集結一、金車、葡萄王、精健、生醫、梅丹、合體、康森、德和、遠東、麗寶、光緒福、多美康等公司，其益生菌膳食補充品取得美國功能保健食品之健康食品認證；新益、康華、康裕、萬福生、生醫、聯康、多得福、與百及生醫等公司的藥廠可取得美國功能保健食品之健康食品認證。

臺灣廠商持續拓展海外市場，並在全球益生菌膳食補充品產業上佔據一席之地。

| Ranking | Company Name | Market Share | Representative Brand |
|---------|--------------|--------------|----------------------|
| 1 | P&G | 3.8 | Align |
| 2 | Sanofi | 3.5 | Enterogermina |
| 3 | 大正製藥 | 3.0 | 表飛鳴 |
| 4 | i-Health | 2.6 | Culturelle |
| 5 | Clorox | 1.9 | Renew Life |

7 Grape King Bio 1.5 Probiotics & Prebiotics, Super 13 Pro&Prebiotics

資料來源：Euromonitor；DCB 產業資訊組整理 (2018.10)

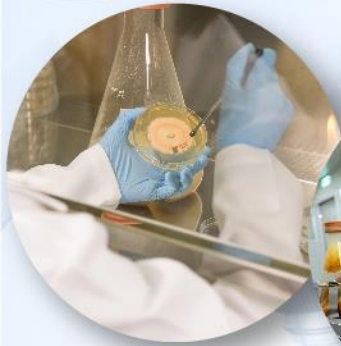
4 | 2018 年 10 月 華研生醫各公司名單 (DCB) 所製、年採製、轉製或以外的方式製成

生技醫藥 產業透析 NO.116
Euromonitor ; DCB 產業資訊組整理 (2018.10)



One-Stop OEM/ODM Service

386 Tons



**Up-stream
Facilities**



**Mid-stream
Facilities**



**Down-stream
Facilities**

Taiwan Largest Production Facility



State-of-the-art Instruments

- HPLC (UPLC) ×20
- AA, ICP-MS
- **Q-TOF (2D LC-MSMS)**
- QQQ (LC-MSMS) X 3
- GC-MS
- Centrifugal Partition Chromatography (CPC-MS) 🍷 The First in Taiwan
- PCR*2, Q-PCR*1
- Cell Disrupter, Microscope X 7
- Flowcytometer (bacteria) 🍷 The First in Taiwan
- Gel Electrophoresis
- Biochemical Analyzer
- ELISA

4 Millions USD
***Precious Laboratory
Equipment***

LC-MS-MS

Quality

We Set the Bar for Food Safety

Our quality control and quality assurance procedures exceed global standards.

Invested USD 2 million to build an internationally certified food safety inspection center to provide related inspection services

Obtained **both international food certification and pharmaceutical GMP**, the only company in Taiwan to do so.



Laboratory



Health Ingredient



Environmental Safety



Manufacturing Process



“ Dosage and Packaging Selections

Glass bottles

10 mL-
180 mL

398,400
bottles/day



Combibloc

180 mL-
200 mL

96,000
packs/day



Retort Pouch

20 mL-
30 mL

720,000
bags/day



Sachets /Bags

1.5 g-3 g
5 g-18 g

720,000
576,000
bags/day



Capsules

400 mg-
650 mg

4,200,000
caps/day



Jelly

15 g



Soft Gels

Oval size
300mg
500mg



“ Government Approval Health Food Certificates



10 Taiwan FDA-Certified Products + **3** China-FDA-Certified Products + **3** Thailand-FDA-Certified Product



“

Exclusive Techniques

National Industrial Innovation Awards



*Cordyceps
Cicadae 2017*

*Hericium Erinaceus /
Lion's Mane 2015*

Probiotics 2014

*Antrodia
Cinnamomea 2012*

科技
Technology

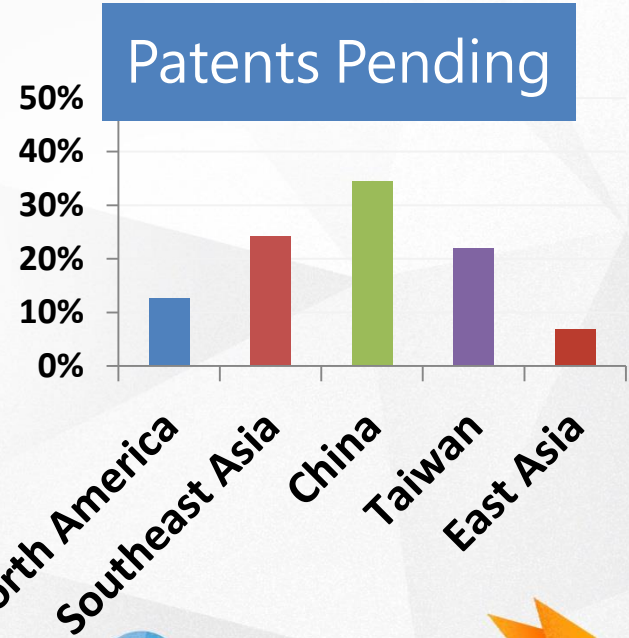
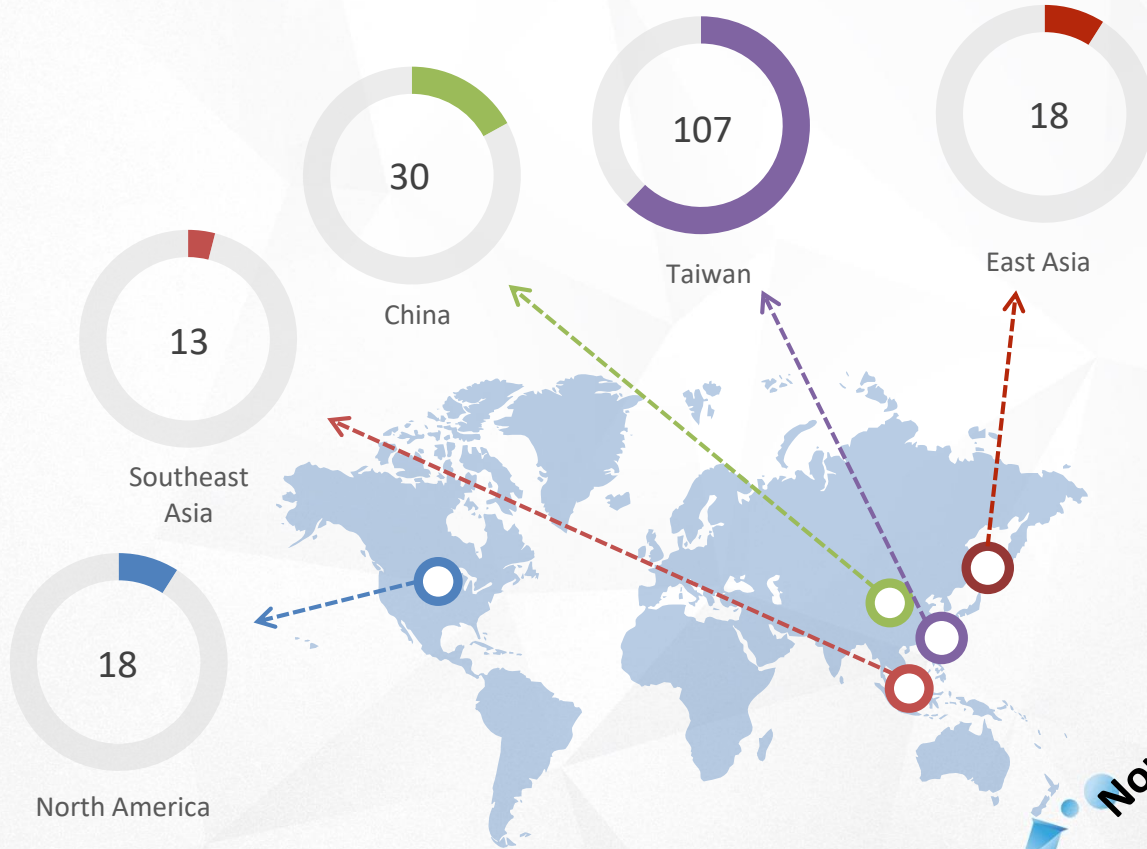
健康
Health

希望
Hope

Won the Taiwan BIO Innovative Awards- Since 2019

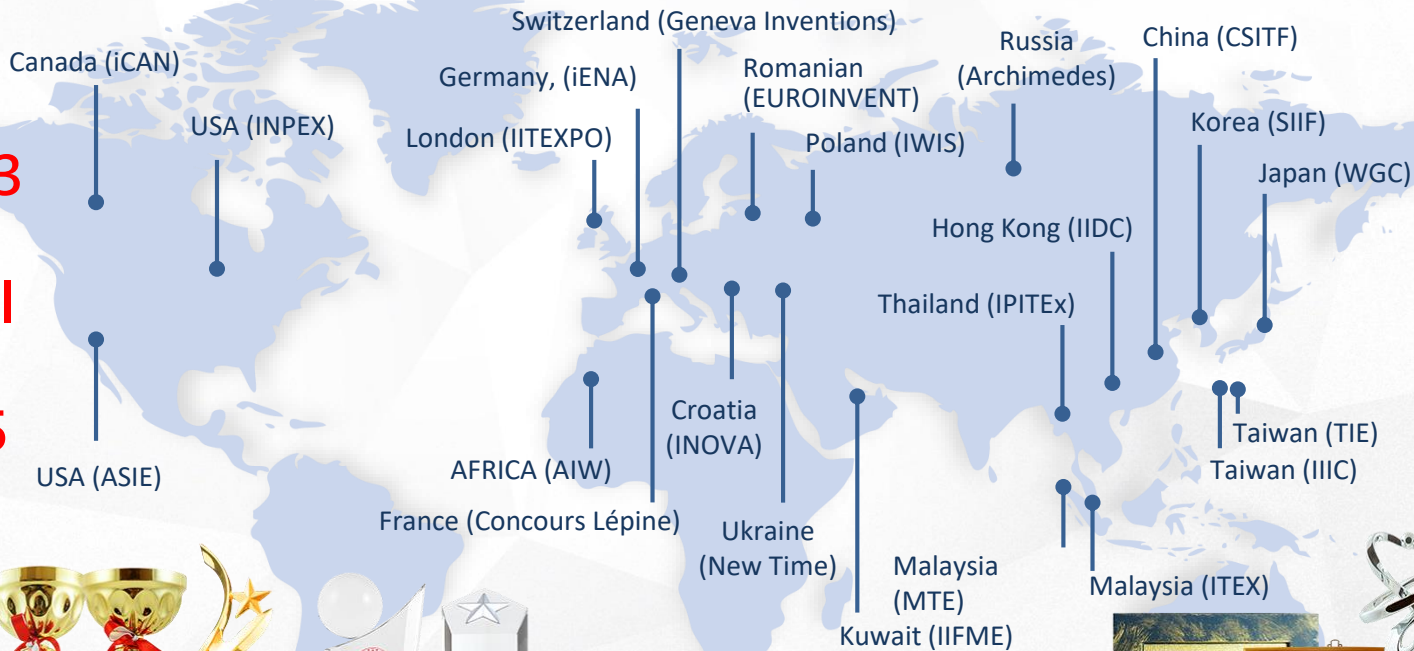


“ Patents Granted: 186 worldwide



“ Achieve International Recognition-20 Countries

2015-2023
131 Gold
55 Special
Awards
Total: 225





葡萄王生技

**GK Biotech Exclusive
Ingredients**

“ Exclusive Biotech Ingredients

Natural Source



Bioactive Ingredients



Specific Application

Lignosus rhinocerus



Antrodia cinnamomea



Coriolus versicolor



Grifola frondosa



Armillaria mellea



Bifidobacterium

Clostridium butyricum



Ganoderma lucidum



Hericium erinaceus



Cordyceps spp.

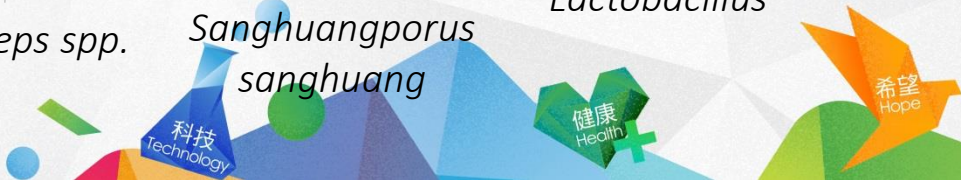


Sanghuangporus sanghuang



Lactobacillus

Coccus





Traditional Culturing



**Solid state
Culturing
(month)**

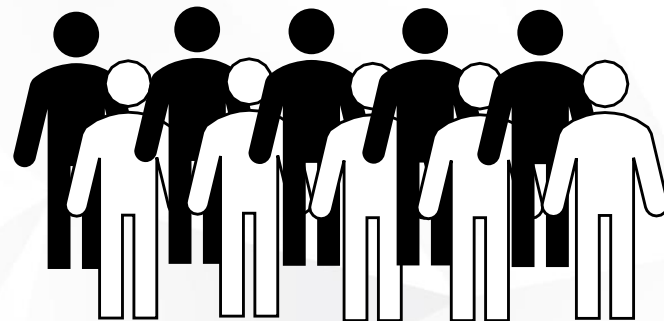
200 pieces / hour

**1600 pieces
= 80 kg**





Traditional Culturing



10 workers

**16000 pieces
= 800 kg (month)**





Core Technology- Mass and Precision Fermentation



Source Quality Control

Tightly-controlled Environments

Concentrated Essence



40 Tons

15000 kg Biomass

Fermentation Scale Up

Induce Target Molecules

Optimized Strain Development

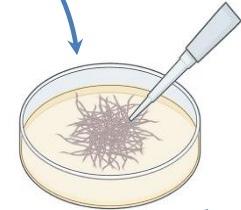


Optimized Bioprocessing (1-14 days)

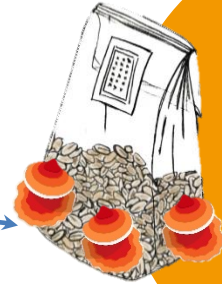
Desired High-Value Functional Ingredients



Carbon Emission: Liquid vs Solid-State



In vitro Propagation



Solid State Cultivation



Liquid Fermentation

Produce
1 kg Mushroom:
8.0 kW
4.41 kg CO₂
9 L H₂O

Source: *Int J LCA* 2019,
24:456–467

Produce
1 kg Mycelia:
2.1 kW
1.07 kg CO₂
1 L H₂O

Source: *Grape King Bio*





Liver care **GK-Antrodia**®



MultiFunctional **GK-Probiotics**



Eye care **GK-Cordyceps**®



Brain care **GK-Hericium**®

Liver-Care

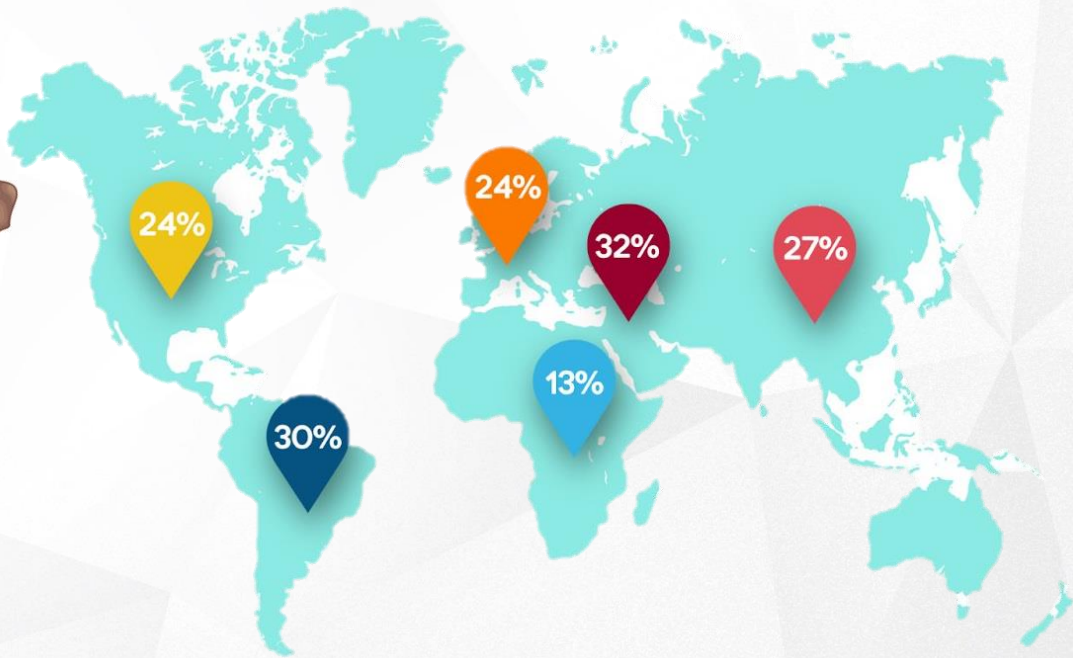
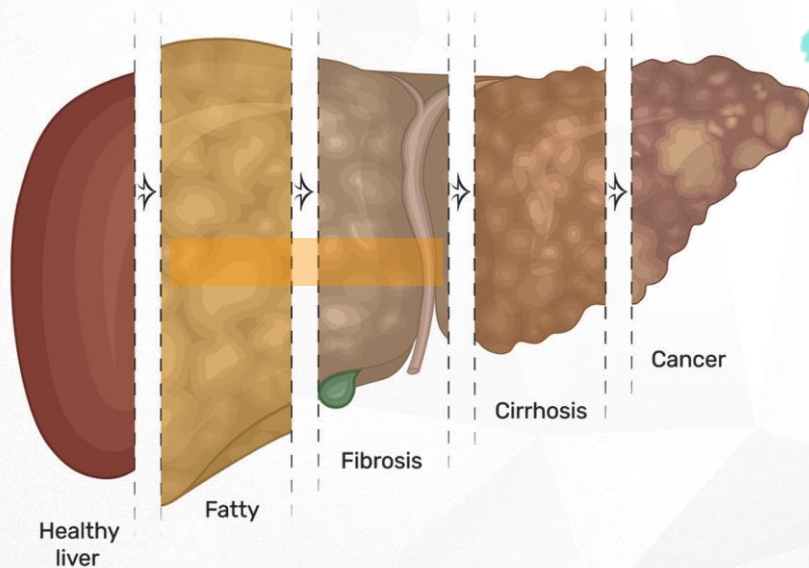
GK-Antrodia®

- Fatty Liver Protection





Nonalcoholic Steatohepatitis



Source: www.international-NASH-Day.com



GK-Antrodia® in Nonalcoholic Steatohepatitis

JOURNAL OF THE AMERICAN COLLEGE OF NUTRITION
<https://doi.org/10.1080/07315724.2020.1779850>



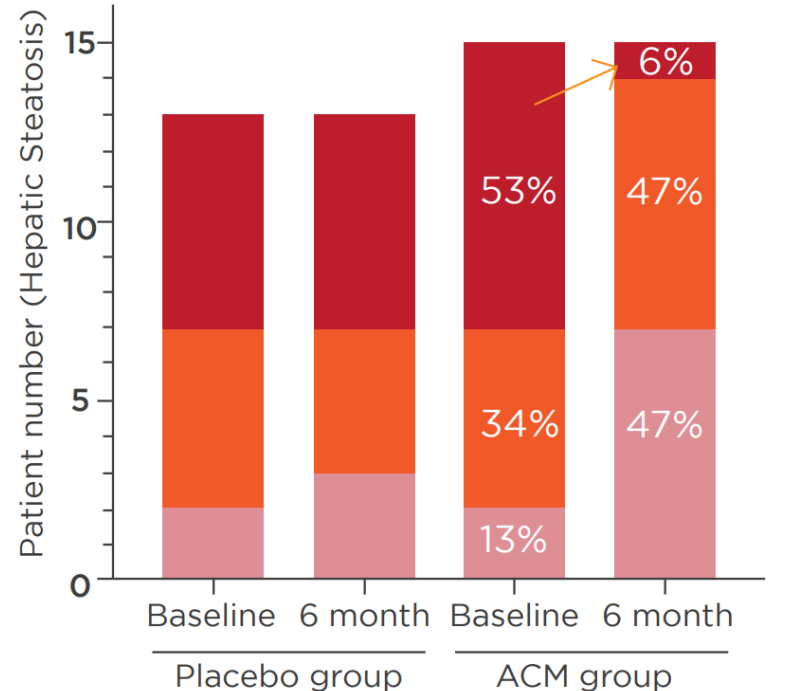
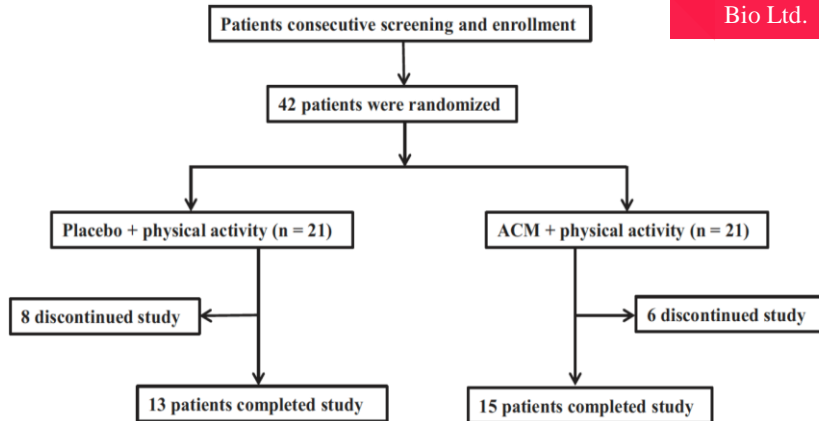
Check for updates

Hepatoprotective Effect of *Antrodia cinnamomea* Mycelium in Patients with Nonalcoholic Steatohepatitis: A Randomized, Double-Blind, Placebo-Controlled Trial

Ya-Ling Chiou^a, Chang-Cherng Chyau^b, Tsung-Ju Li^c, Chia-Feng Kuo^d, Yu-Yling Kang^a, Chin-Chu Chen^{c,d,e}, and Wang-Sheng Ko^{a,f}

^aDepartment of Nutrition, Master Program of Biomedical Nutrition, Hungkuang University, Taichung City, Taiwan; ^bResearch Institute of Biotechnology, Hungkuang University, Taichung City, Taiwan; ^cBiotech Research Institute, Grape King Bio Ltd, Taoyuan City, Taiwan; ^dDepartment of Food Science, Nutrition, and Nutraceutical Biotechnology, Shih Chien University, Taipei City, Taiwan; ^eInstitute of Food Science and Technology, National Taiwan University, Taipei City, Taiwan; ^fDepartment of Internal Medicine, Kuang-Tien General Hospital, Taichung City, Taiwan

Grape King Bio Ltd.



“ FDA IND Submission: A Phase II Clinical Trial Review



Drug/Biologic
Discovery

Pre-Clinical
Development

Clinical
Development

Post-
Marketing

GK-Antrodia®

Phase I

Phase II

Phase III



“ GK-Antrodia® Products Launched



Antrodia King



Antrodia Aqua



GKB Antrodia



“ GK-Antrodia® Products Launched



Antrodia Coffee



Antrodia Ya-Ya



Neuro-trition *GK-Hericium*®

- Prevent early Alzheimer's
- Ameliorate Hearing Loss

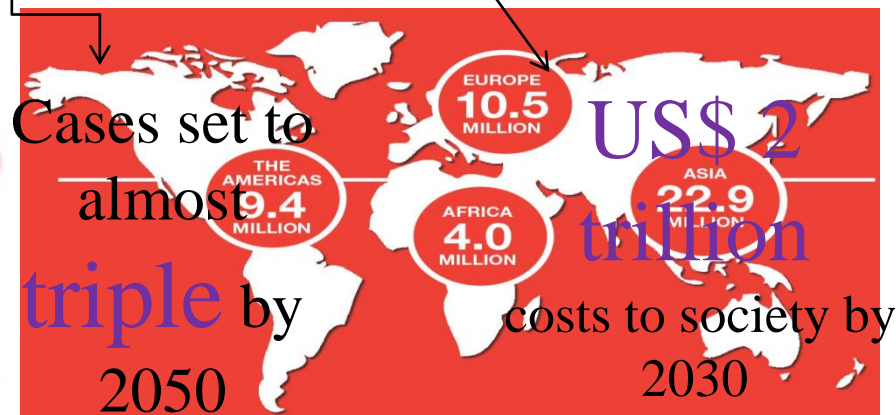
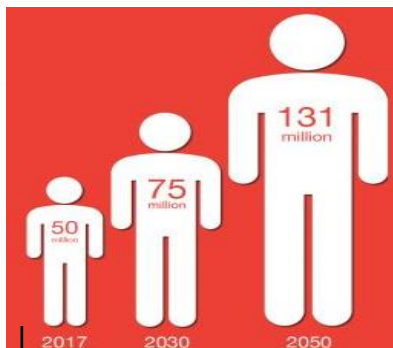


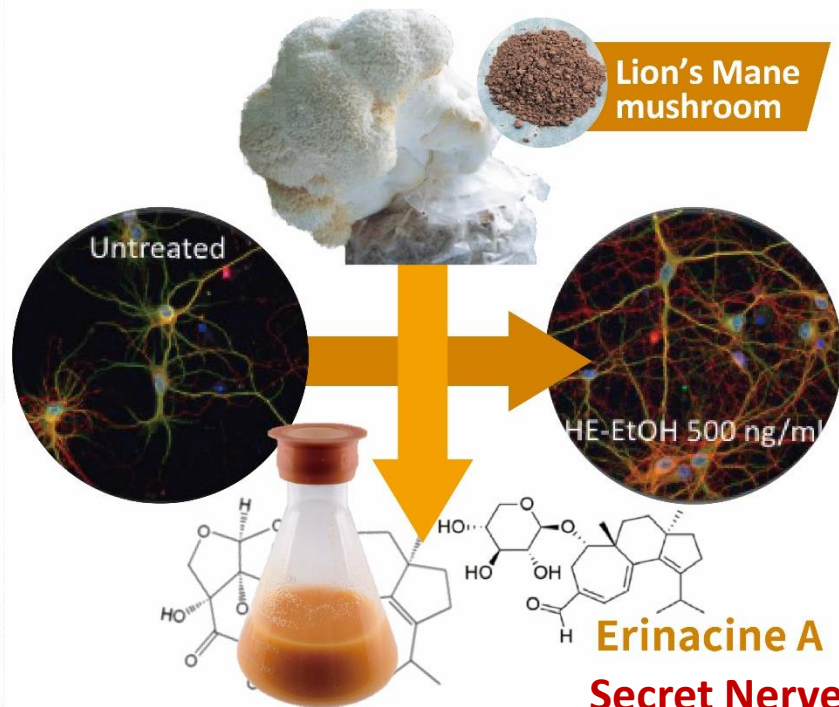


Alzheimer's Disease International

The global voice on dementia

Dementia is a Global Issue





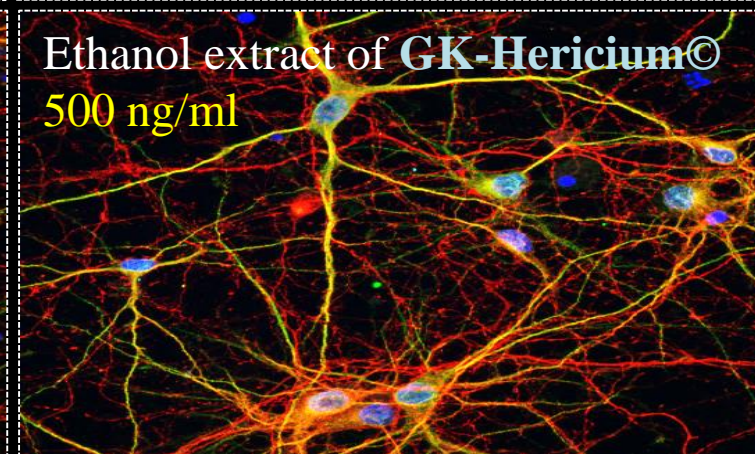
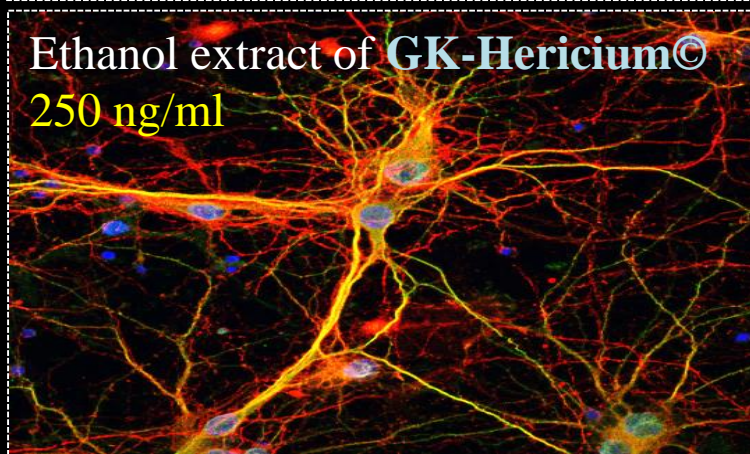
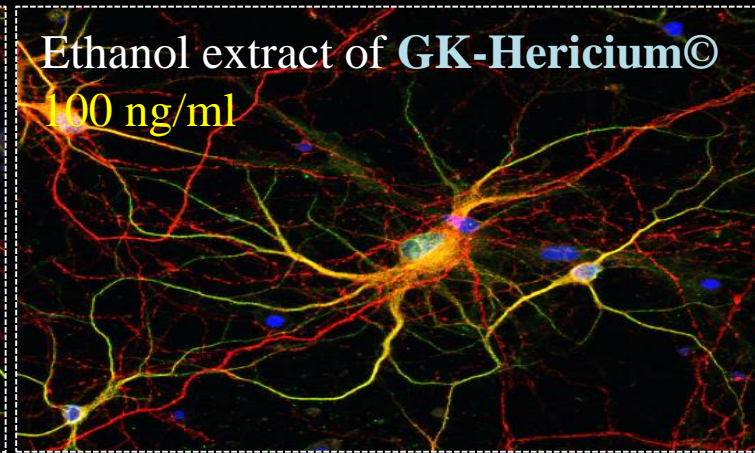
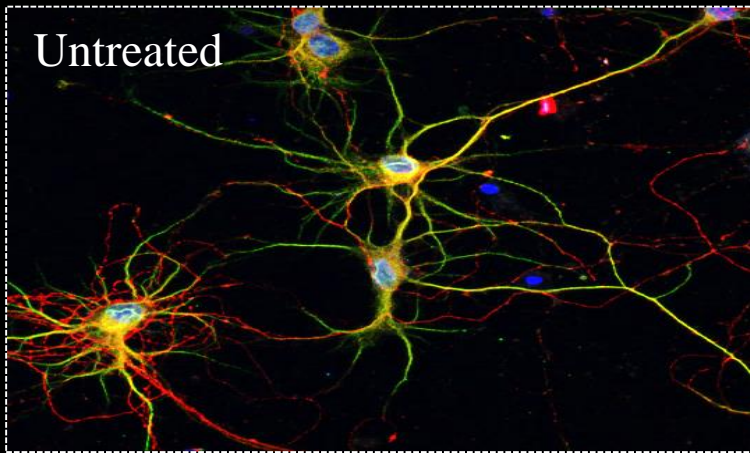
Erinacine contents in fruiting bodies and mycelial cultures of *Hericium erinaceus*

| | Matrix(parts) | Erinacine A |
|-----------|-------------------------|-------------|
| Solid | Sawdust (fruiting body) | 0.01mg/g |
| | Sawdust (mycelia) | N.D. |
| | Agar(fruiting body) | N.D. |
| | Agar(mycelia) | N.D. |
| | Grain (fruiting body) | N.D. |
| | Grain (mycelia) | N.D. |
| Submerged | Liquid(mycelia) | 33.8mg/g |

N.D. : Below 1ppm



Primary cortical neurons treated with **GK-Hericium©**



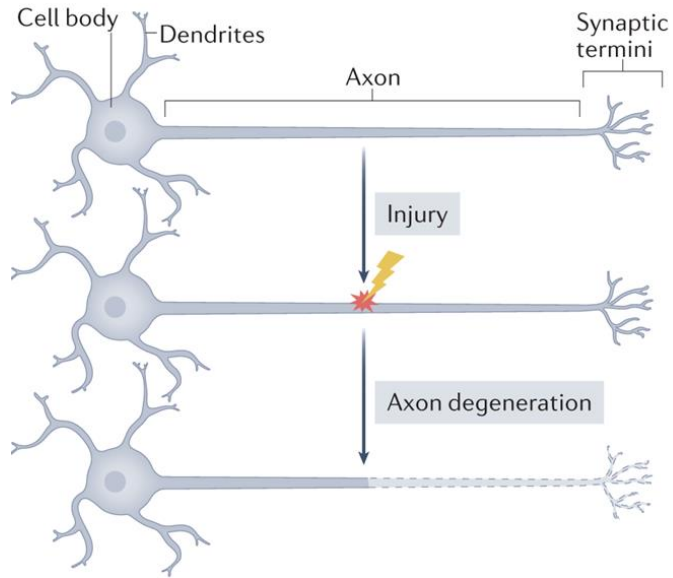
Anti-Tau (Red): axon
Anti-MAP2 (Green): dendrite

Dendrite

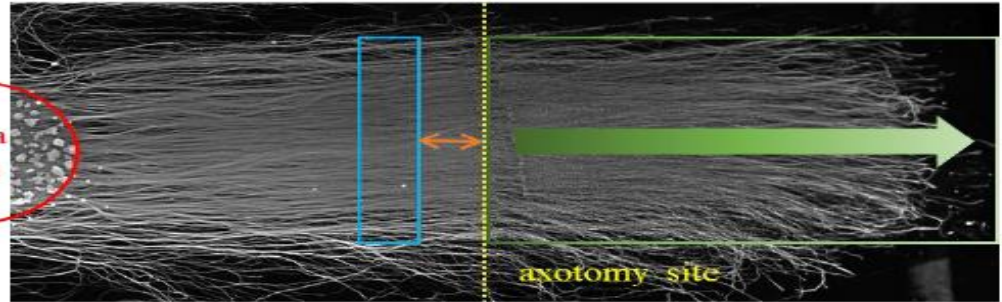


Axon

GK-Hericiium© Enhances Axon Regeneration

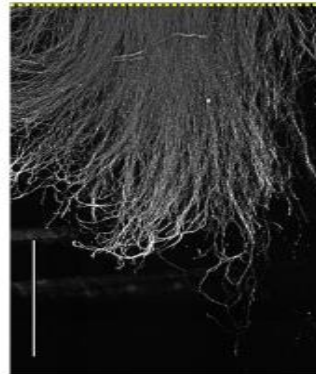


soma area

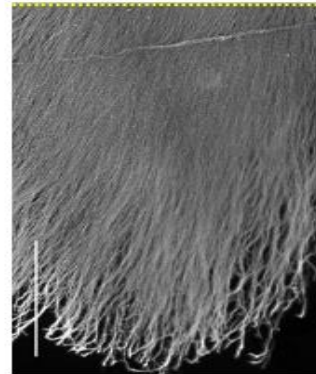


$$\text{regeneration ratio} = \frac{\text{regenerated part}}{\text{uninjured part}}$$

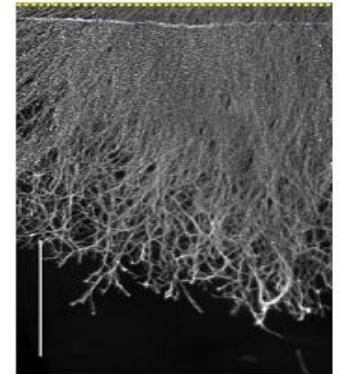
DMSO



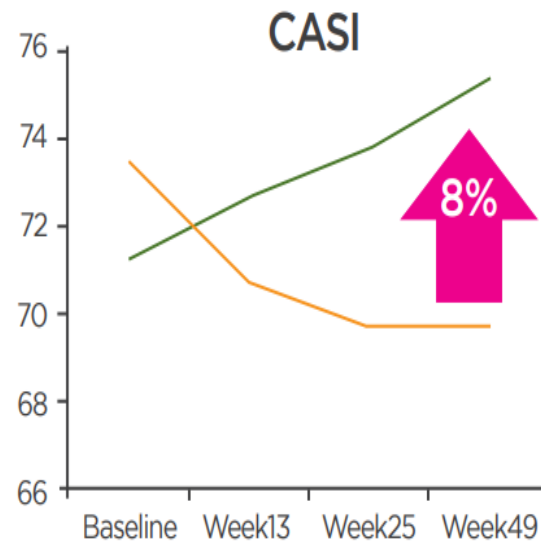
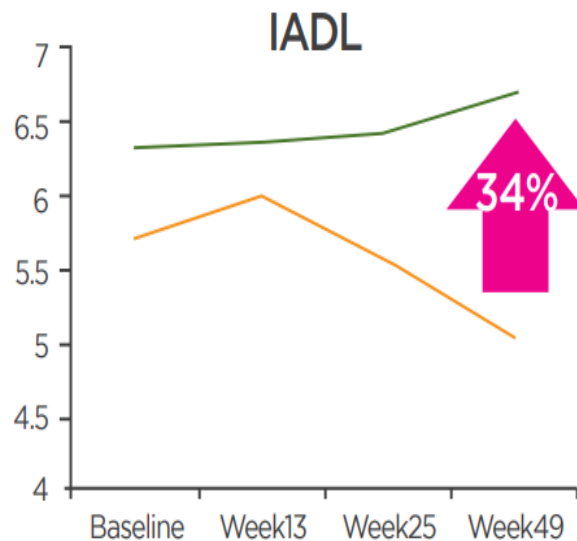
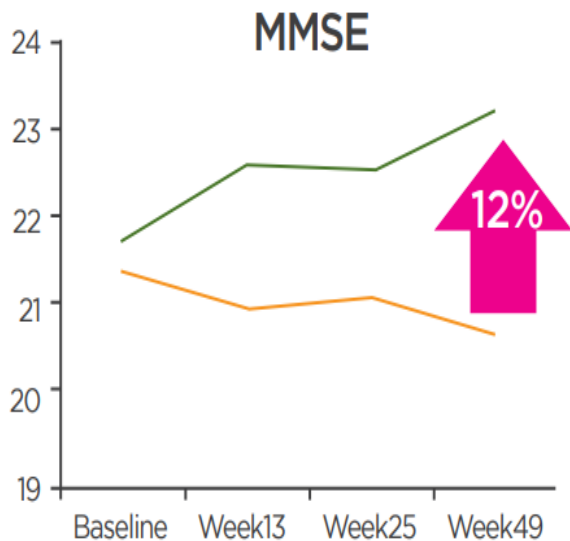
GK-B



GK-C



GK-Hericium© Prevents Early Alzheimer's (n=42)



— Hericium erinaceus
— Placebo

MMSE: Mini-Mental Status Examination
CASI: Cognitive Abilities Screening Instrument
IADL: Instrumental Activities of Daily Living





Prevention of Early Alzheimer's Disease by Erinacine A-Enriched *Hericium erinaceus* Mycelia Pilot Double-Blind Placebo-Controlled Study

I-Chen Li¹, Han-Hsin Chang², Chuan-Han Lin³, Wan-Ping Chen¹, Tsung-Han Lu³, Li-Ya Lee¹, Yu-Wen Chen¹, Yen-Po Chen¹, Chin-Chu Chen^{1,4,5,6*} and David Pei-Cheng Lin^{3,7*}

¹ Biotech Research Institute, Grape King Bio Ltd., Taoyuan City, Taiwan, ² Department of Nutrition, Chung Shan Medical University, Taichung City, Taiwan, ³ Department of Medical Laboratory and Biotechnology, Chung Shan Medical University, Taichung City, Taiwan, ⁴ Institute of Food Science and Technology, National Taiwan University, Taipei City, Taiwan, ⁵ Department of Food Science, Nutrition and Nutraceutical Biotechnology, Shih Chien University, Taipei City, Taiwan, ⁶ Department of Bioscience Technology, Chung Yuan Christian University, Taoyuan City, Taiwan, ⁷ Department of Ophthalmology, Chung Shan Medical University Hospital, Taichung City, Taiwan

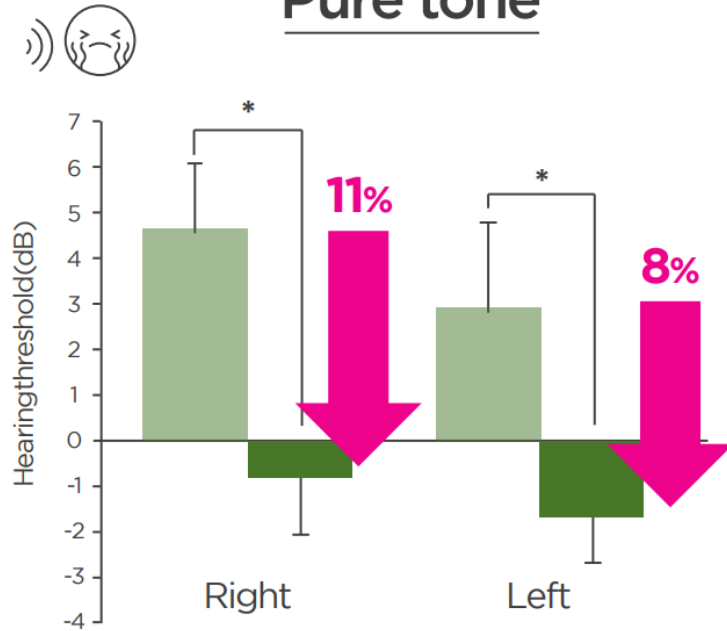
Grape King
Biotechnology Ltd.



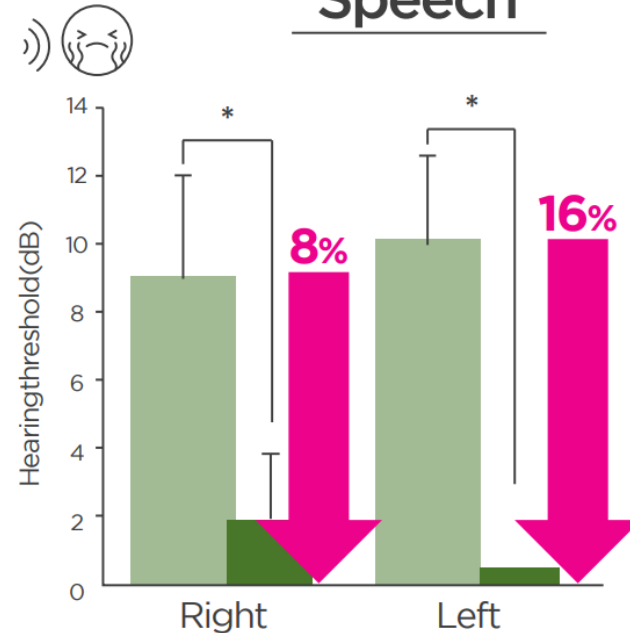
GK-Hericium© Ameliorates Hearing Loss (n=24)

8 Months

Pure tone



Speech





ELSEVIER

Contents lists available at ScienceDirect

Journal of Functional Foods

journal homepage: www.elsevier.com/locate/jff

Effects of erinacine A-enriched *Hericium erinaceus* on elderly hearing-impaired patients: A double-blind, randomized, placebo-controlled clinical trial[☆]

Yin-Ching Chan ^a, Tzu-Chun Lin ^b, Chin-Chu Chen ^{b,c,d}, Li-Ya Lee ^b, Wan-Ping Chen ^b,
Ya-Zue Liu ^a, Juen-Haur Hwang ^{e,f,g,*}

^a Department of Food and Nutrition, Providence University, Taichung, Taiwan

^b Biotech Research Institute, Grape King Bio Ltd., Taoyuan, Taiwan

^c Department of Food Science, Nutrition, and Nutraceutical Biotechnology, Shih Chien University, Taipei, Taiwan

^d Institute of Food Science and Technology, National Taiwan University, Taipei, Taiwan

^e Department of Otolaryngology-Head and Neck Surgery, Dalin Tzu Chi Hospital, Buddhist Tzu Chi Medical Foundation, Chiayi, Taiwan

^f School of Medicine, Tzu Chi University, Hualien, Taiwan

^g Department of Medical Research, China Medical University Hospital, China Medical University, Taichung, Taiwan

Grape King
Biotechnology Ltd.

“ GK-Hericium© Products Launched

Hericium King



Nootropics's ErinaMAX



GKB Lion's Mane



Pro-partner's Neuro-trition

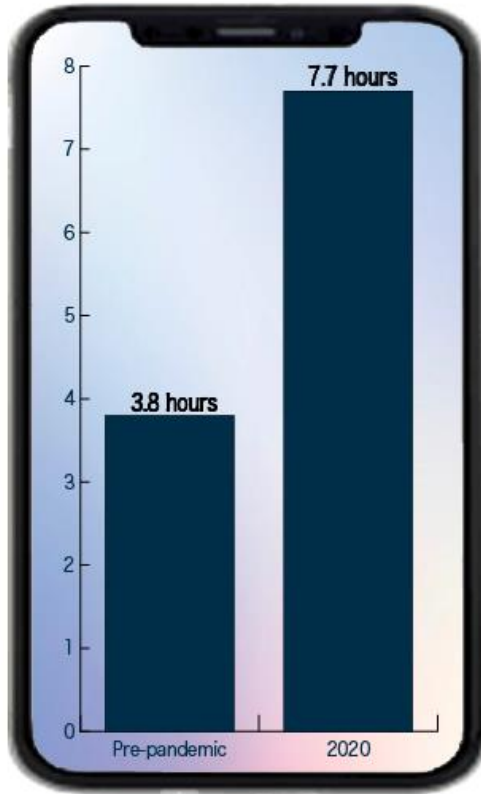


Eye-care **GK-Cordyceps®**

- Improve Dry Eye Syndrome
- Lower High Eye Pressure

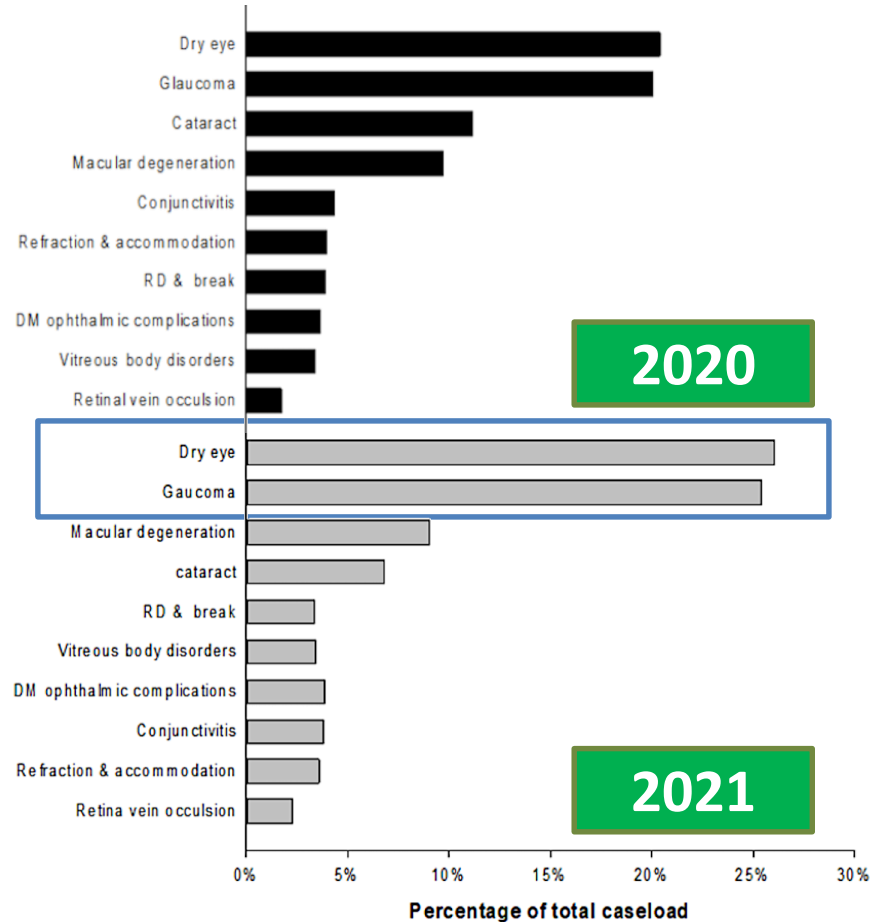


Adolescents spent a mean time of over seven hours a day on screen in 2020.



Data from Jama Pediatrics

Top common diagnoses of ophthalmic patients in Taiwan

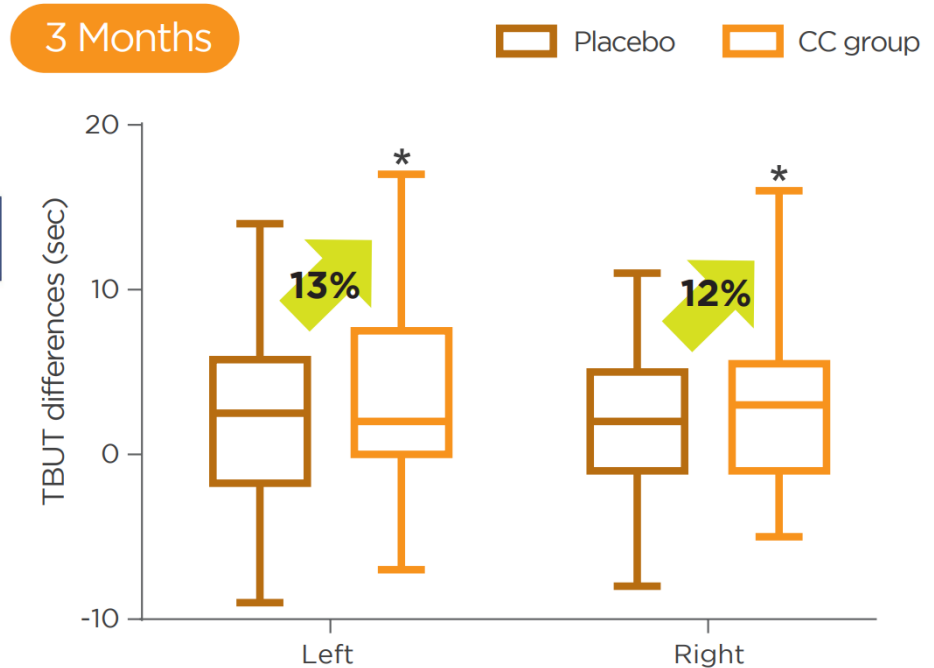
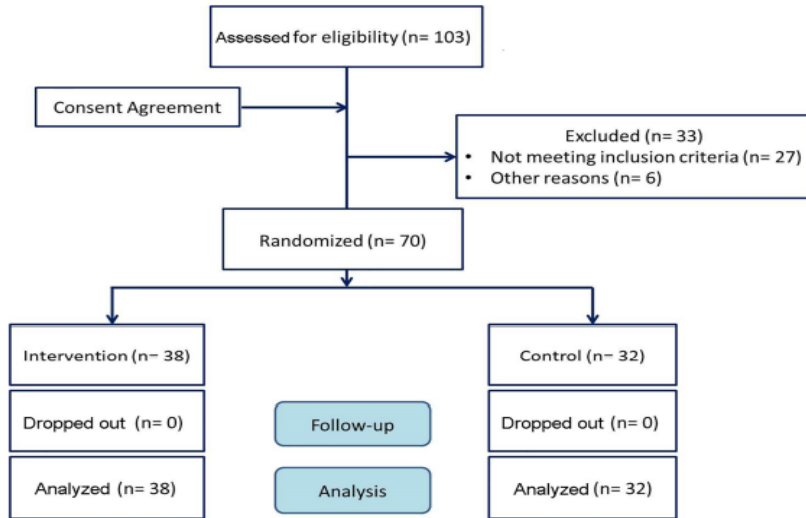


Cited from Yen C-Y, Fang I-M, Tang H-F, Lee H-J, Yang S-H (2022) COVID-19 pandemic decreased the ophthalmic outpatient numbers and altered the diagnosis distribution in a community hospital in Taiwan: An observational study. PLoS ONE 17(3): e0264976.



GK-Cordyceps® Helps Dry Eye Syndrome (n=97)

After administration of CC for 3 months, there was a significant improvement in tear break-up time (TBUT).



Efficacy of *Cordyceps cicadae* (Ascomycota) Mycelium Supplementation for Amelioration of Dry Eye Symptoms: A Randomized, Double-Blind Clinical Pilot Study

Han-Hsin Chang,^{a,b} Wen-Jui Chang,^c Bo-Yi Jhou,^d Szu-Yu Kuo,^d Jui-Hsia Hsu,^d Yen-Lien Chen,^d Chin-Chu Chen,^{d,e,f,g,*} & David Pei-Cheng Lin^{b,h,*}

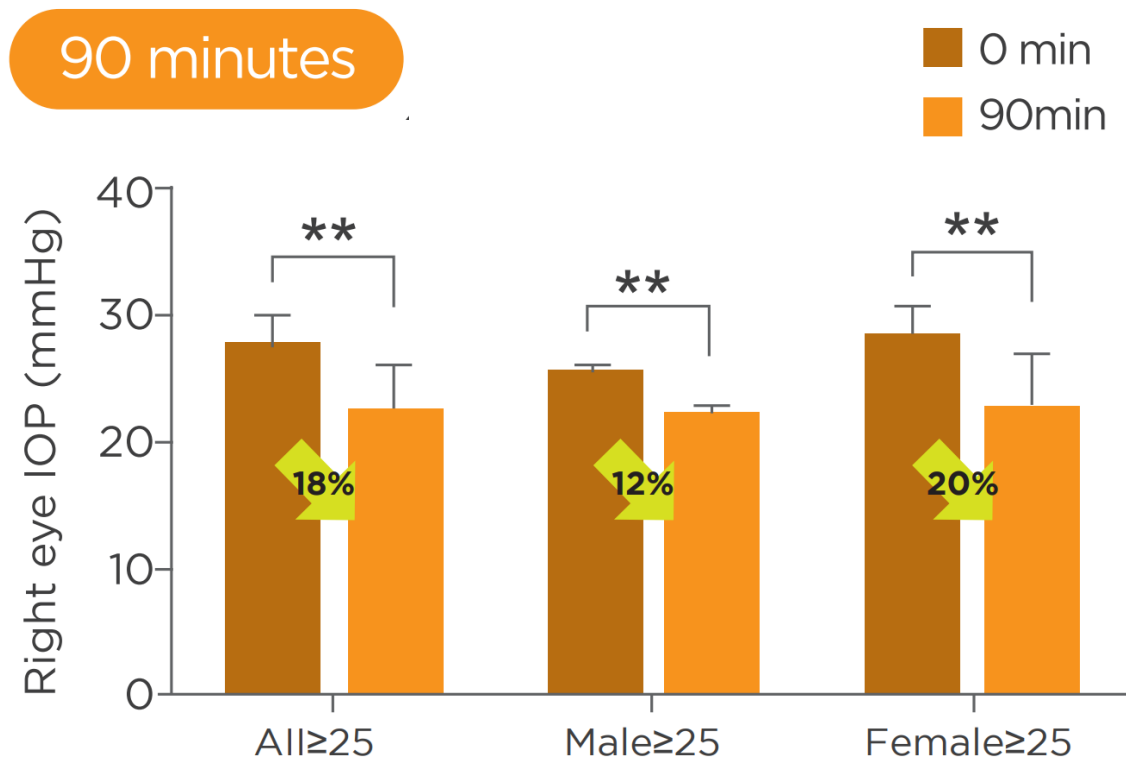
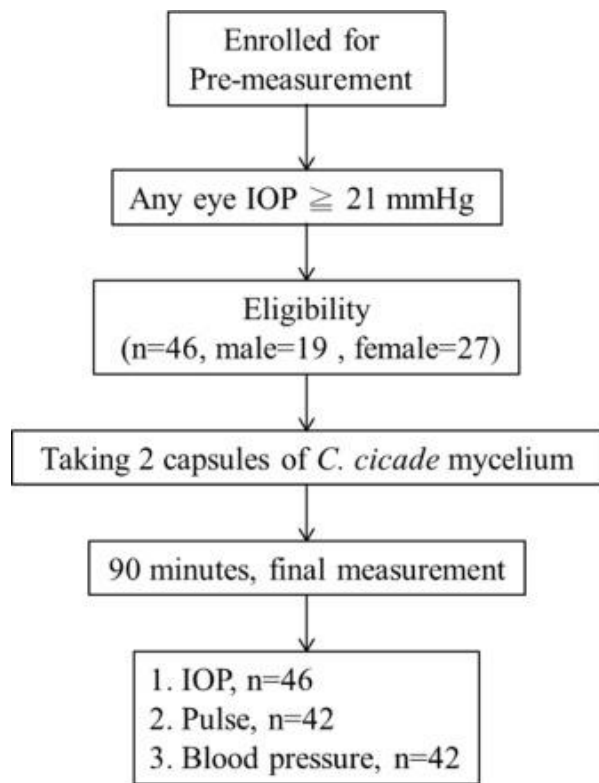
Grape King
Biotechnology Ltd.

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GK-Cordyceps® Lowers High Eye Pressure



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journal homepage: www.elsevier.com/locate/jff



Clinical evaluation of the short-term effects of *Cordyceps cicadae* mycelium in lowering intraocular pressure

Jui-Hsia Hsu^a, Wen-Jui Chang^b, Hsin-I Fu^a, Han-Hsin Chang^{c,*}, Chin-Chu Chen^{a,d,e,f,*}

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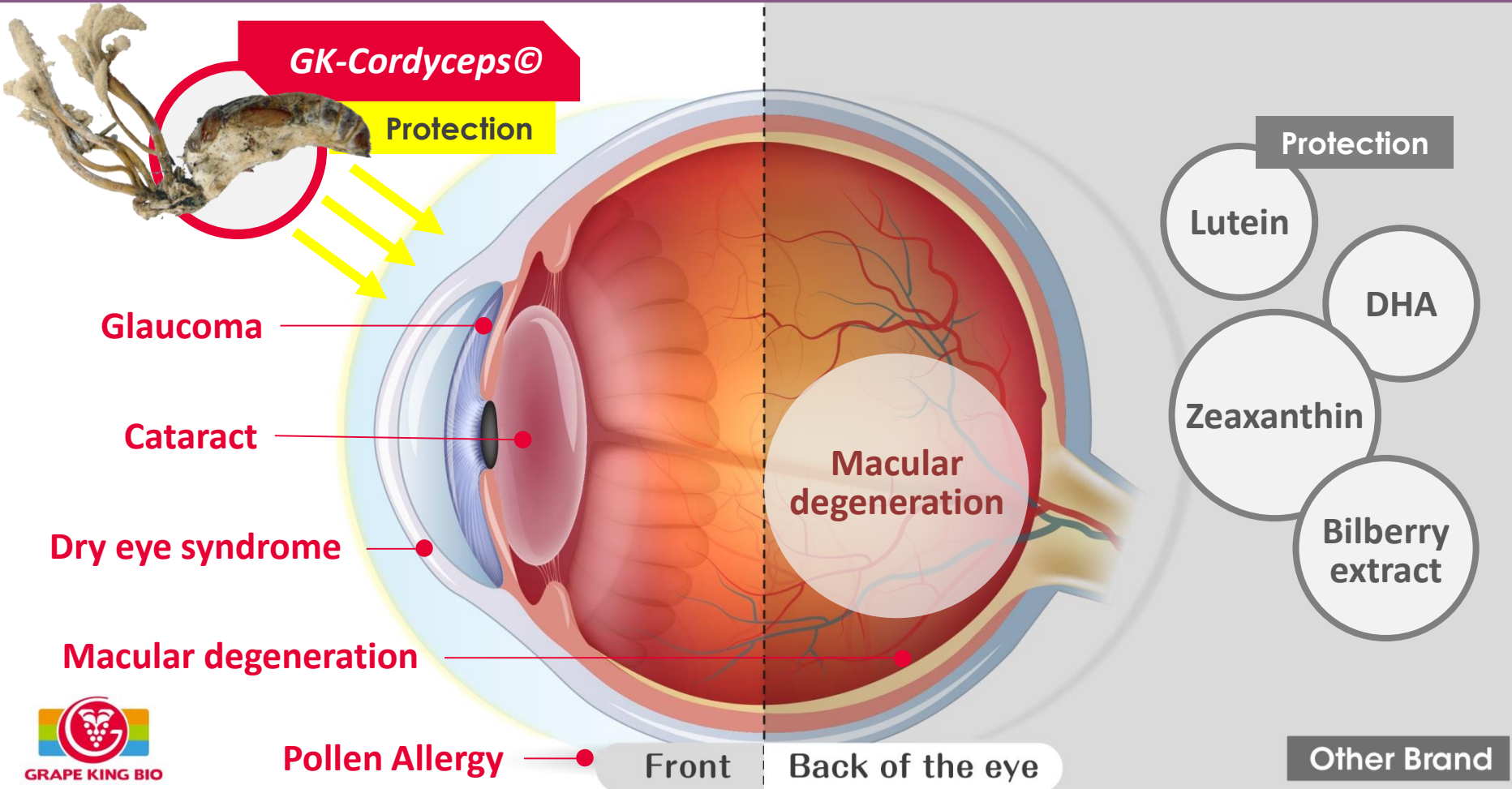
^d [Institute of Food Science and Technology, National Taiwan University, Taipei City, Taiwan](https://www.nat.gov.tw)

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Grape King
Biotechnology Ltd.

Comparison



“ GK-Cordyceps® Products Launched



Pro-partner's Qi-Rui



Cordi C



GKB Cordyceps

Multi Functional **GK-Probiotics**

- Each probiotic strain offers specific benefits



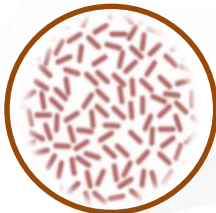
Multiple Functionalities of Grape King's Probiotics



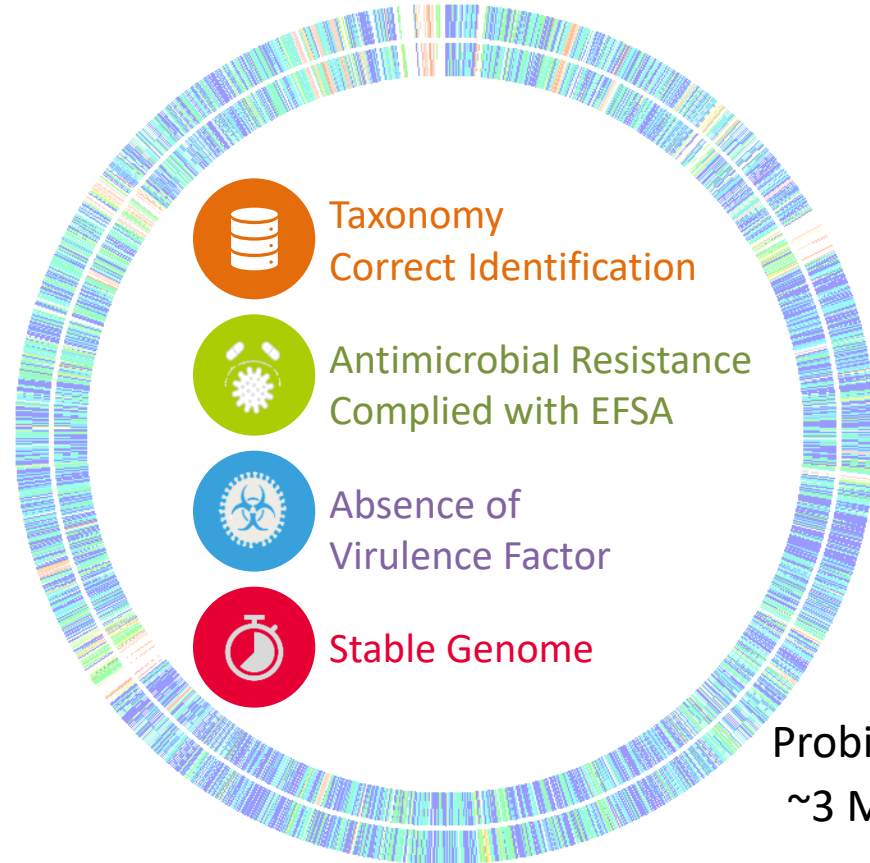
Asia's largest
resource bank
> 1000 strains



Optimized strain
development
*which exert specific
health benefits*



Highest viable cells on
the market
1 to 8 x 10¹¹ cfu/g



Probiotics
~3 M bp

Smoking Cessation



5
4

Enhance Sport Performance



“ Probiotic Products Launched



Probiotic King
(GKM3, GKK2, GKS6, GK66,
GKA7, GKC1, GKF3)



Light Probiotic King
(GKM3)



GoodNight Probiotic King
(GKF3)





Mushroom mycelia



Mental care-
Hericium Erinaceus

Sleep care-
Armillaria mellea

Lung care-
Lignosus rhinocerus

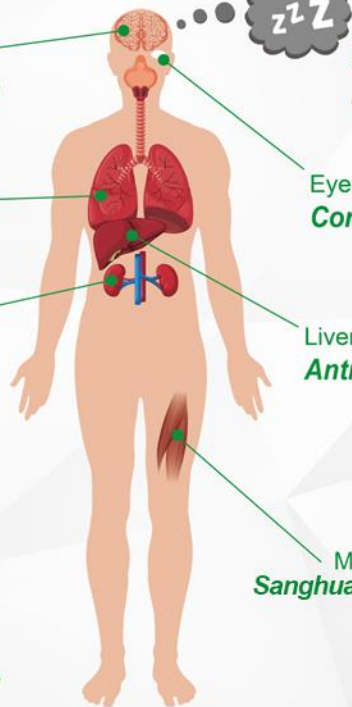
Eye care-
Cordyceps cicadae

Kidney care-
Cordyceps spp.

Liver care-
Antrodia cinnamomea

Immune care-
Ganoderma lucidum

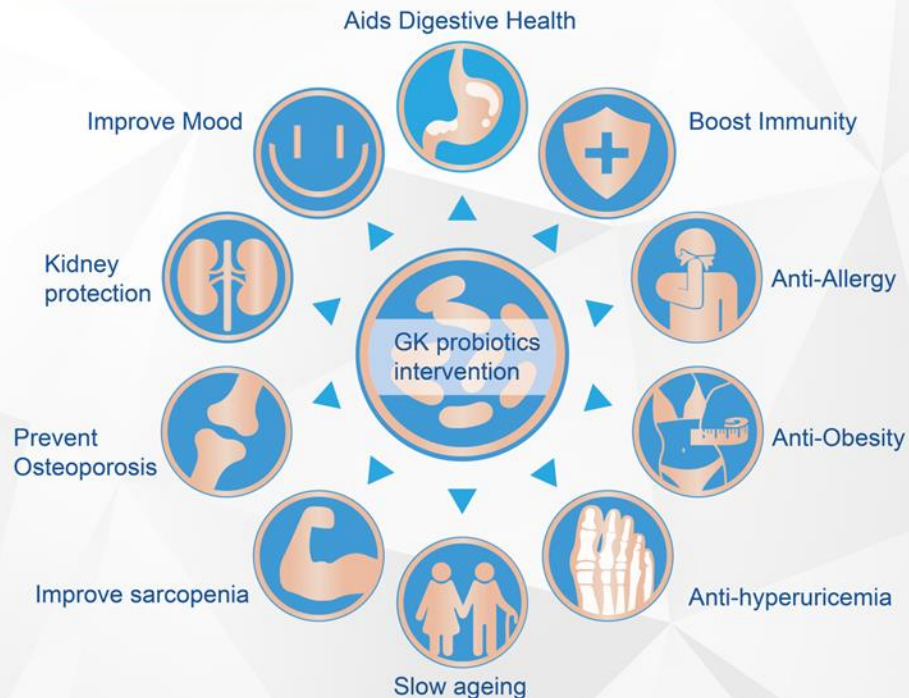
Muscle care-
Sanghuangporus sanhuang



Probiotics



at least $>10^{11}$ CFU/g



“ Next Generation Food

Reduced freshwater and arable land usage as well as carbon footprint

58

FungGiTM

meet

Sea Water Cultured GK Mycoprotein —An Alternative Sustainable Protein Source



GRAS
Fusarium venenatum



Utilizing freshwater as well as seawater for production



Flavored/Colored final product:
Whole cuts of variable thickness

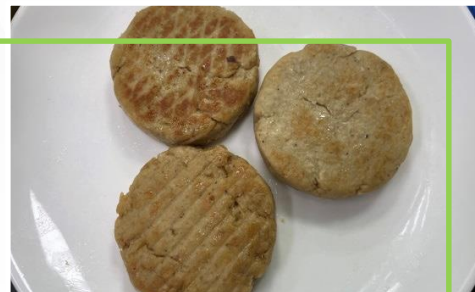
“ FungGi meet Finished Products



Truffle Sauce



Bread Loaf



Burger Meat



Whole-Cut Slice



Tuna Can



Ice Cream

GK INCI List

- ❖ Bifidobacterium Ferment Extract
- ❖ Lactobacillus Ferment Extract
- ❖ Polyporus Umbellatus Ferment Extract
- ❖ Antrodia cinnamomea Extract
- ❖ Lepista Nuda Ferment Filtrate Powder
- ❖ Lepista Nuda Ferment Extract
- ❖ Cordyceps Cicadae Mycelium Extract



Free Samples Today!

Next Generation Cosmeceuticals

Skin Care

- ✓ Anti Allergy
- ✓ Radiance
- ✓ Elasticity
- ✓ Firmness
- ✓ Pores
- ✓ Wound healing
- ✓ Wrinkles

Oral Care

- ✓ Fresh Breath
- ✓ Happy gums
- ✓ Prevent plaques
- ✓ Restore Microflora



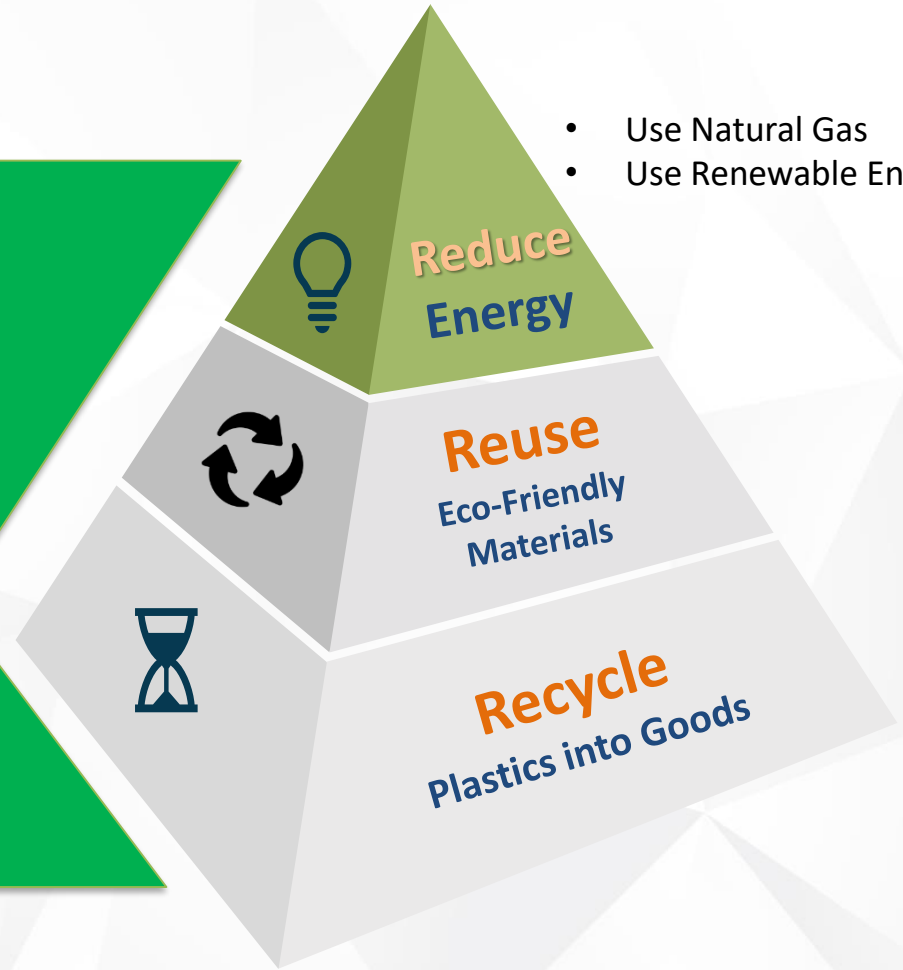
Grape King Bio going Green



Most Sustainable

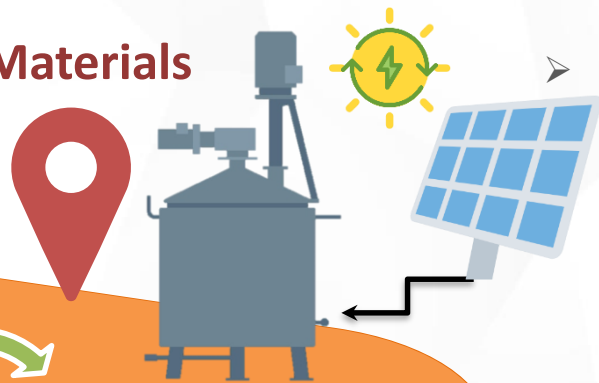
Least Sustainable

ReTHINK Waste



Sustainability Strategy: Grape King Bio as an example

Raw Materials



- Use Renewable Energy
2022: 311,693 kWh
↓ 158,652 kg CO₂e

- Waste Sludge to Power
2022: 122.22 tons
↓ 37,150 kg CO₂e

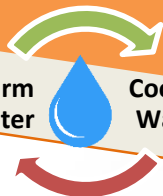


- Livestock Feed
2022: 2,285 tons
↓ 694,549 kg CO₂e

Waste Conversion



Warm Water
Cooling Water



- Recycling of Water
2022: 34,071 tons
↓ 5,110 kg CO₂e



Products

- Made From Eco-Friendly Materials
2022: 2,395.98 tons (55.05 % products)

Recycle Packaging

- Reused Plastic Bottles into Goods
2022: 400 kg
↓ 760 kg CO₂e



❖ 2017 ISO14001

❖ 2019 ISO50001

❖ 2023 ISO14064



Bioeconomy in Grape King BIO: For a Better World

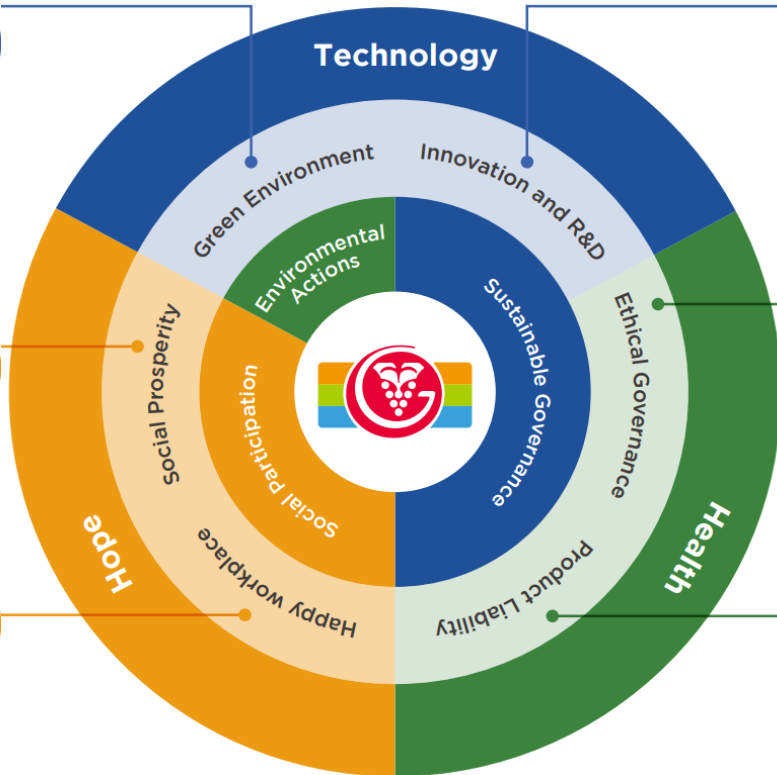
Build Friendly Operational Environments



Continued Local Investments and Social Contributions



Create New Green Jobs



Develop Bio-Based Innovations Oriented to Market



Establish Stable Operations and Expand Overseas Markets



Rigorous Control of Food Safety

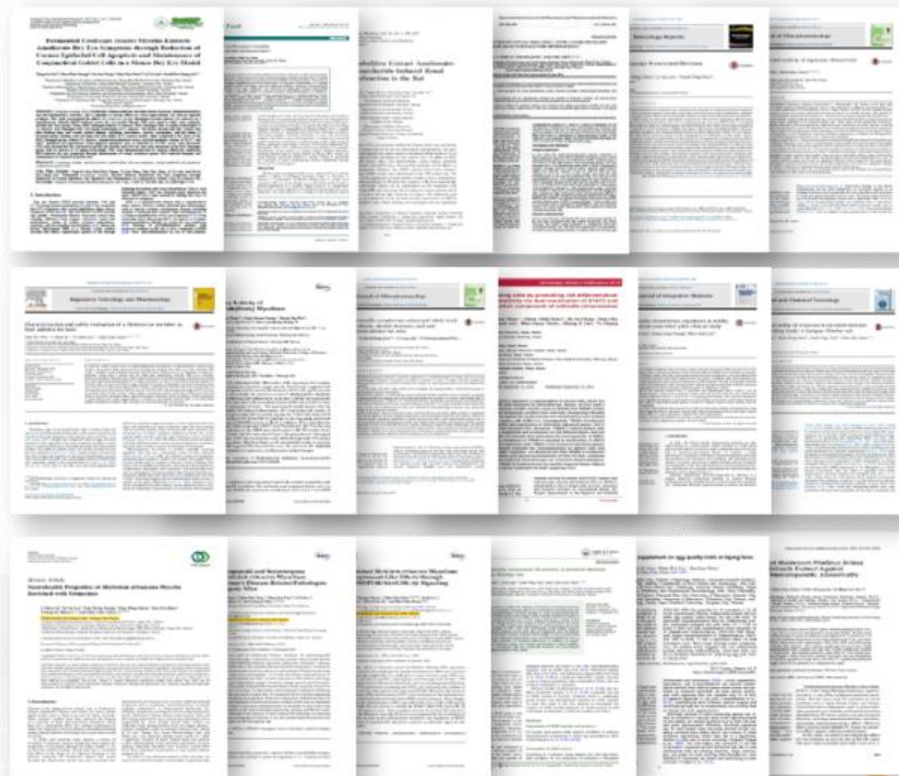


2019: RE 100

“ Papers published

128 SCI papers published

254 Total papers published



| Year | SCI | Total |
|------|-----|-------|
| 2019 | 8 | 20 |
| 2020 | 12 | 26 |
| 2021 | 16 | 26 |
| 2022 | 17 | 37 |



Acknowledge to Strong Research Team

Academic Institutes

- National Yang-Ming University
- National Taiwan University
- Taipei Medical University
- Hung Kuang University
- China Medical University
- National Chung Hsing University
- Chung Shan Medical University
- National Cheng Kung University
- Kaohsiung Medical University
- And many more...

Industry-Academia
Cooperative Projects
with **111** Academic
Institutes and Medical
Centers

10 Teaching
Hospitals or
Medical Centers

Medical Centers

- Taipei Veterans General Hospital
- Taipei City Hospital
- Chang Gung Memorial Hospital
- Cheng Hsin General Hospital
- Landseed International Hospital
- Chung Shan Hospital
- Kuang Tien General Hospital
- Tzu Chi General Hospital
- National Cheng Kung University Hospital
- Kaohsiung Medical University Chung-Ho Memorial Hospital

| Year | Commissioned projects |
|------|-----------------------|
| 2020 | 32 |
| 2021 | 28 |
| 2022 | 30 |



2023.07.28

Thailand Biotech Industry Club

2023.07.29

The Federation of Thai Industries



Live Healthy | Think Grape King

THANK YOU



Mushroom mycelia



Probiotics



Microbiological products
and internship

Grape King Biotech Research Institute welcomes
OEM & ODM orders



Scan for
more information
about GKHerbal



Scan for
more information
about GKProbiotics



科技
Technology

健康
Health

希望
Hope